

# Calibre<sup>®</sup>



- Elite grain yield
- Derived from popular variety Scepter<sup>Ⓛ</sup>
- Very widely adapted, suited to all growing regions of WA
- Longer coleoptile than most commonly grown varieties
- Good sprouting tolerance, similar to Scepter<sup>Ⓛ</sup>, better than Vixen<sup>Ⓛ</sup>
- Improved powdery mildew resistance over Scepter<sup>Ⓛ</sup>
- Quick-mid maturity, similar to Mace<sup>Ⓛ</sup>
- AH quality classification

## Breeder's comments

Calibre<sup>®</sup> (tested as RAC2721) is the first variety derived from Scepter<sup>®</sup> to hit the market and is the next step for growers looking to achieve the gains they made by switching from Mace<sup>®</sup> to Scepter<sup>®</sup>.

Not only is Calibre<sup>®</sup> the next step in grain yield, it also offers growers the opportunity to access longer coleoptile genetics in an elite yielding background. The coleoptile length of a wheat variety is a factor that limits how deep you can plant. So, it's not surprising that there are many instances where a longer coleoptile is needed: when there is a chance of furrow fill by wind or rain; when chasing receding moisture profiles; or when trying to achieve adequate pre-emergent herbicide separation. Magenta<sup>®</sup> is a good example of a variety with a longer coleoptile that has been used in the past by growers to manage such situations but is now outclassed. Calibre<sup>®</sup> has a similar coleoptile length to Magenta<sup>®</sup> but with market leading yield performance.

With elite grain yield, improved coleoptile length, AH quality, very wide adaptation, and a disease package similar to its parent Scepter<sup>®</sup>, Calibre<sup>®</sup> makes an excellent replacement for Scepter<sup>®</sup>. The yellow leaf spot resistance of Calibre<sup>®</sup> is good, achieving a very similar level of resistance to Scepter<sup>®</sup>. Calibre<sup>®</sup> also offers a valuable improvement in stem rust, stripe rust and powdery mildew resistance over Scepter<sup>®</sup>.

## Seed availability

Commercial quantities of Calibre<sup>®</sup> may be available through AGT Affiliates, or your local retailer. Please consult the AGT website for AGT Affiliate contact details. Calibre<sup>®</sup> can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative.

## PBR and EPR

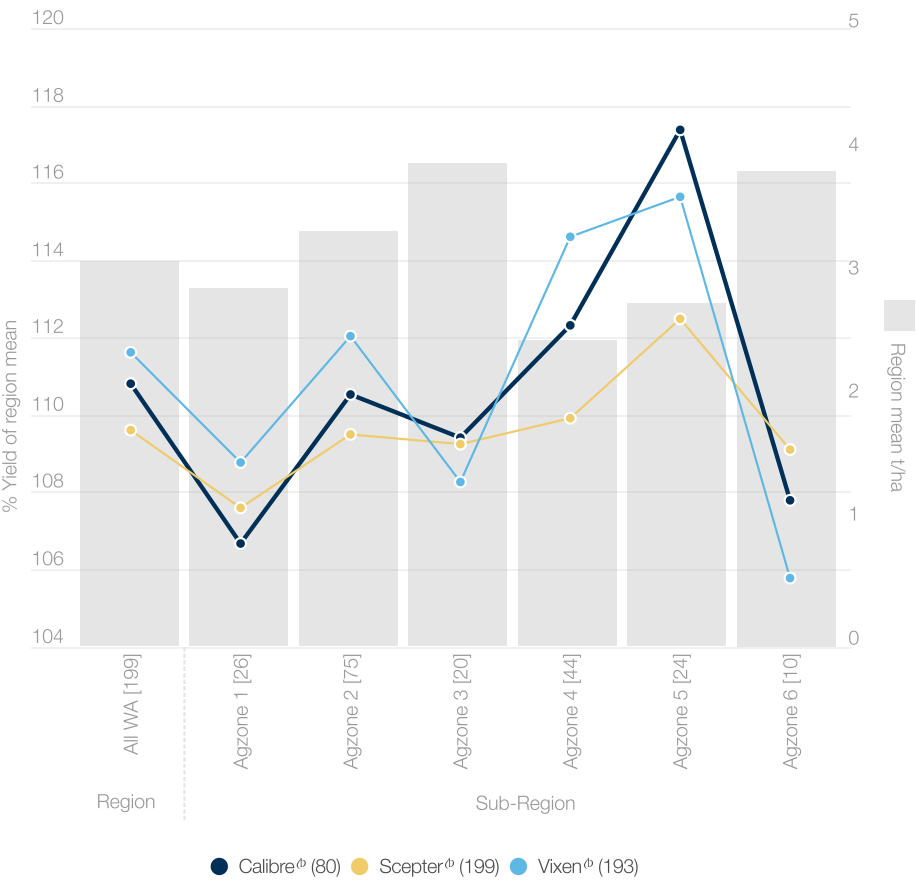
Calibre<sup>®</sup> is protected by Plant Breeders Rights (PBR) (denoted by the <sup>®</sup> symbol) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Calibre<sup>®</sup> growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$3.50/tonne + GST must be paid on all production other than seed saved for planting.

Grain yield

NVT long term data shows that Calibre<sup>®</sup> has yielded exceptionally well relative to comparator varieties in most regions of WA, offering a slight yield advantage over Scepter<sup>®</sup> overall, and similar to Vixen<sup>®</sup> (Figure 1).

Viewing data by yield potential band, we see that Calibre<sup>®</sup> has enjoyed a clear yield advantage over Scepter<sup>®</sup> in trials that have yielded less than 4t/ha, with Scepter<sup>®</sup> gaining an advantage over Calibre<sup>®</sup> in higher yielding environments (Figure 2).

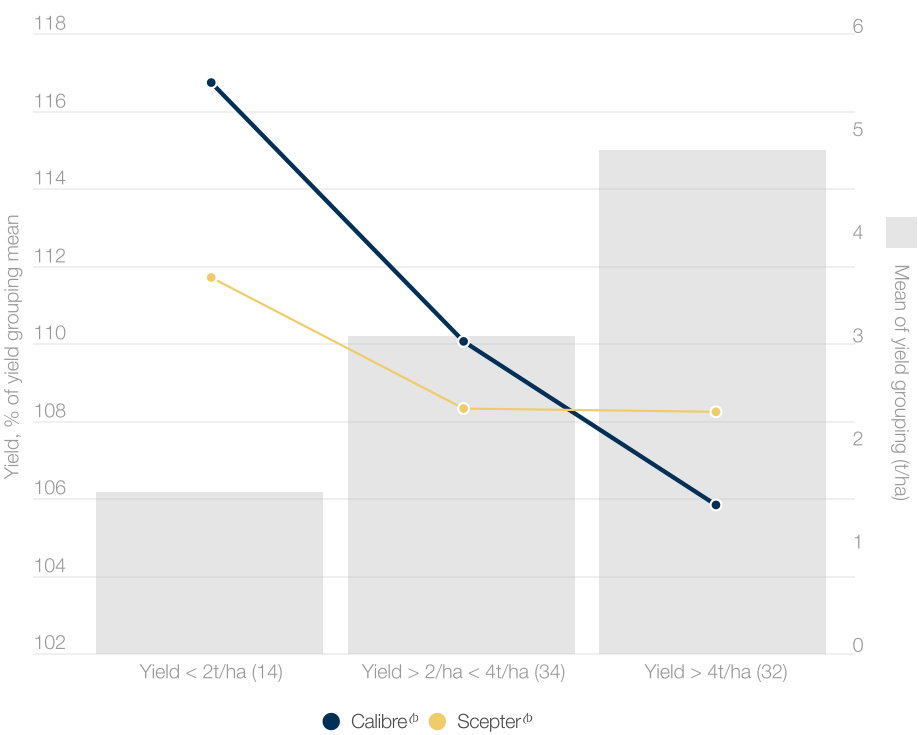
Figure 1. Grain yield of Calibre<sup>®</sup> versus comparators



Source: NVT main season series long term MET analysis 2017-2021

- [ ] Total number of trials per region
- ( ) Number of trials that each variety was present in across the Western Australian dataset [199]

Figure 2. Grain yield of Calibre<sup>®</sup> versus Scepter<sup>®</sup> - yield bands



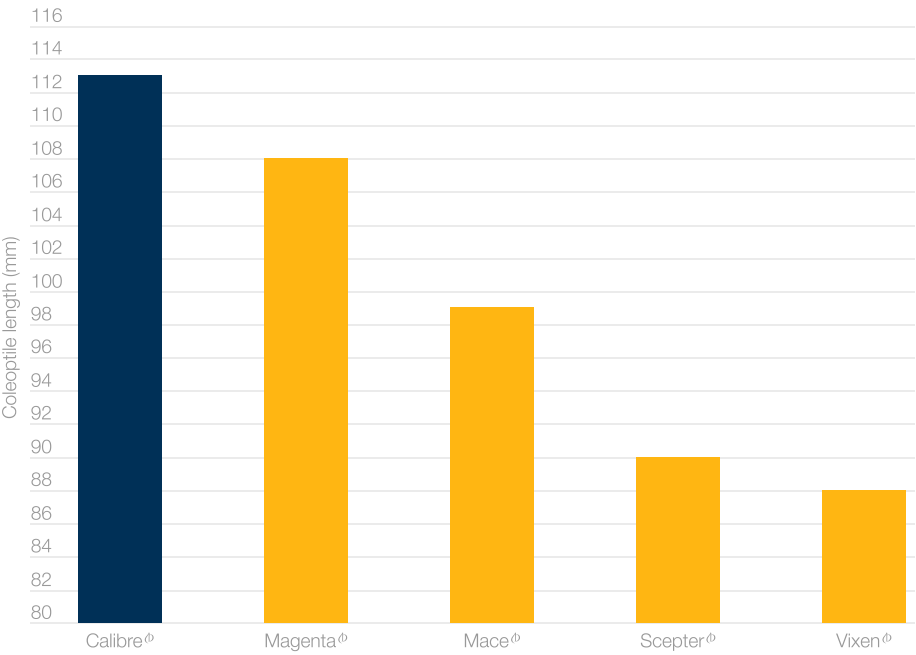
Source: NVT main season series 2020-2021 (80 trials across WA)

( ) Number of trials

### Coleoptile length

Calibre<sup>®</sup> has a much longer coleoptile than many currently grown varieties, which may prove beneficial in some situations (Figure 3).

Figure 3. Coleoptile length of Calibre<sup>®</sup> versus comparators

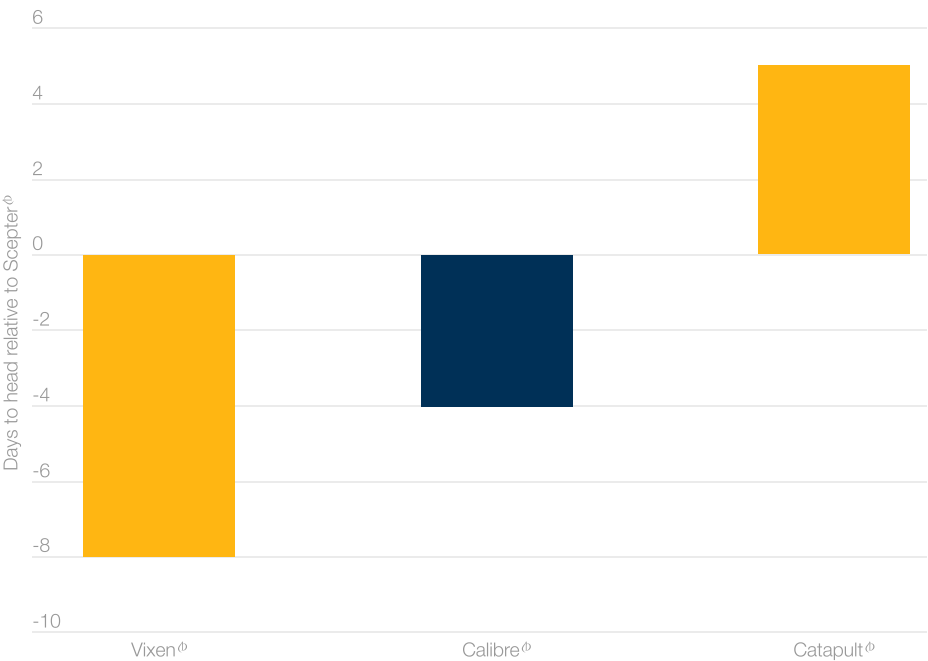


Source: AGT coleoptile experiment, average of three trials 2018-2021

# Maturity

Calibre<sup>®</sup> is a quick-mid maturing variety, a few days slower than Vixen<sup>®</sup> and a little quicker than Scepter<sup>®</sup>. Those that are familiar with the maturity of Mace<sup>®</sup> and Scepter<sup>®</sup> should feel comfortable in planting Calibre<sup>®</sup> in a similar sowing window (Figure 4).

Figure 4. Head emergence of Calibre<sup>®</sup> and comparators relative to Scepter<sup>®</sup>

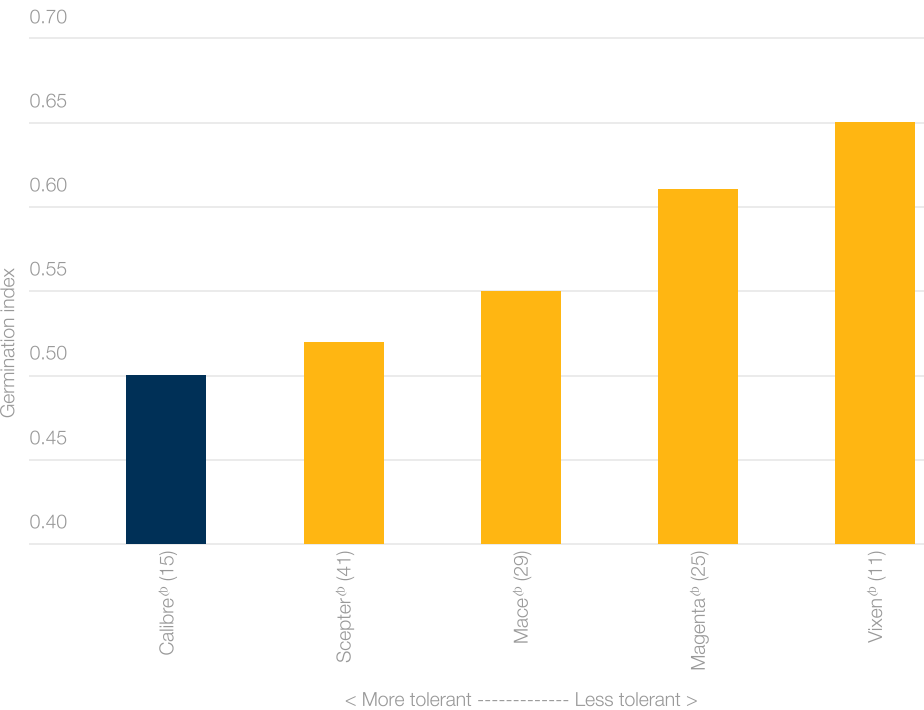


Source: AGT Northam main season trial 2019-2021

Disease resistance & agronomics

Calibre<sup>®</sup> holds strong resistance to stem and stripe rust, and limited data suggests that it has slightly better resistance to powdery mildew than Scepter<sup>®</sup> and Vixen<sup>®</sup> (Table 1). The sprouting tolerance of Calibre<sup>®</sup> is very similar to Scepter<sup>®</sup>, offering an advantage over Vixen<sup>®</sup> (Figure 5).

Figure 5. Sprouting tolerance of Calibre<sup>®</sup> versus comparators



Source: AGT Germination Index testing 2016-2020

( )      reps tested



Table 1. Variety comparisons

|                        | Calibre <sup>o</sup> | Scepter <sup>o</sup> | Vixen <sup>o</sup> |
|------------------------|----------------------|----------------------|--------------------|
| Quality Classification | AH                   | AH                   | AH (N)             |
| Stem Rust              | MR                   | MRMS                 | MRMS               |
| Stripe Rust            | RMR                  | MR                   | MRMS               |
| Leaf Rust              | S                    | MSS                  | SVS                |
| Yellow Spot            | MRMS                 | MRMS                 | MRMS               |
| Powdery Mildew         | MSS*                 | S                    | S                  |
| Sprouting tolerance#   | MII                  | MII                  | IVI                |

RResistant

MRModerately Resistant

MSModerately Susceptible

S

VS

#

Susceptible

Very Susceptible

Rating from AGT

Germination Index trials

\*

Provisional rating

Source: NVT consensus ratings

2021 and AGT



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Disclaimer: The information contained in this brochure is based on knowledge and understanding at the time of writing. Growers should be aware of the need to regularly consult with their advisors on local conditions and currency of information.